

CLAIMS

1. A volume hologram recording material comprising as constituents a polymer matrix having a three-dimensional crosslinking structure, a polymerizable monomer, and a tertiary amine compound, the polymer matrix being formed in the presence of the polymerizable monomer by a polymerization reaction that is different from a polymerization reaction of the polymerizable monomer.
2. The volume hologram recording material according to Claim 1, wherein the polymer matrix having a three-dimensional crosslinking structure has a reactive group that can copolymerize with the polymerizable monomer.
3. The volume hologram recording material according to Claim 2, wherein the polymer matrix reactive group that can copolymerize with the polymerizable monomer is a (meth)acryloyl group.
4. The volume hologram recording material according to any one of Claim 1 to Claim 3, wherein the polymer matrix is formed by addition polymerization of a polyol and a polyisocyanate.
5. A volume hologram recording medium for recording, by means of refractive index difference, interference fringes that result from the interference of coherent light, the medium comprising a recording layer having a thickness of 100 μm or greater, and the recording layer comprising the volume hologram recording material according to any one of Claim 1 to Claim 4.